## SEQUENCE LISTING

```
<110> WANKER, Erich
LEHRACH, Hans
SCHERZINGER, Eberhard
BATES, Gillian
```

<120> COMPOSITION AND METHOD FOR THE DETECTION OF DISEASES ASSOCIATED WITH AMYLOID-LIKE FIBRIL OR PROTEIN AGGREGATE FORMATION

```
<130> V0179/7000/HCL
      <150> PCT/EP98/04811
      <151> 1998-07-31
      <150> EP97113306.1
      <151> 1997-08-01
      <160> 41
      <170> FastSEQ for Windows Version 3.0
      <210> 1
      <211> 38
      <212> DNA
      <213> Artificial Sequence
      <220>
      <223> Oligonucleotide Primer
                                                                         38
tgggatccgc atggcgaccc tggaaaagct gatgaagg
      <210> 2
      <211> 36
      <212> DNA
      <213> Artificial Sequence
      <223> Oligonucleotide Primer
      <400> 2
                                                                         36
ggagtcgact cacggtcggt gcagcggctc ctcagc
      <210> 3
      <211> 39
      <212> DNA
      <213> Artificial Sequence
      <220>
      <223> Oligonucleotide Primer
                                                                        - 39
ctcctcgagc ggcggtggcg gctgttgctg ctgctgctg
      <210> 4
      <211> 51
      <212> DNA
```

```
<213> Artificial Sequence
     <220>
     <223> Oligonucleotide Primer
                                                               51
cgctcgaggg tatcttcgag gcccagaaga tcgagtggcg atcaccatga g
     <210> 5
     <211> 54
     <212> DNA
     <213> Artificial Sequence
     <223> Oligonucleotide Primer
     <400> 5
                                                               54
qqccqctcat gqtqatcqcc actcqatctt ctgggcctcg aagataccct cgag
     <210> 6
     <211> 94
     <212> PRT
     <213> Homo Sapiens
     <400> 6
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
                                10
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln Gln
Pro Pro Pro Pro Pro Pro Gln Leu Pro Gln Pro Pro Pro Gln Ala
                     55
Gln Pro Leu Leu Pro Gln Pro Gln Pro Pro Pro Pro Pro Pro Pro
                                   75
Pro Pro Gly Pro Ala Val Ala Glu Glu Pro Leu His Arg Pro
                                90
     <210> 7
     <211> 95
     <212> PRT
     <213> Homo Sapiens
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
                                10
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln Gln
40
Pro Pro Pro Pro Pro Pro Pro Gln Leu Pro Gln Pro Pro Gln
Ala Gln Pro Leu Leu Pro Gln Pro Gln Pro Pro Pro Pro Pro Pro
                  70
                                   75
Pro Pro Pro Gly Pro Ala Val Ala Glu Glu Pro Leu His Arg Pro
                                90
     <210> 8
     <211> 96
     <212> PRT
```

<213> Homo Sapiens

<210> 9

<211> 97

<212> PRT

<213> Homo Sapiens

<400> 9

 Ile
 Glu
 Gly
 Arg
 Gly
 Ile
 Arg
 Met
 Ala
 Thr
 Leu
 Glu
 Lys
 Leu
 Met
 Lys
 Leu
 Glu
 Glu
 Glu
 Leu
 Met
 Lys
 Leu
 Glu
 Pro
 P

<210> 10

<211> 98

<212> PRT

<213> Homo Sapiens

<400> 10

 Ile
 Glu
 Gly
 Arg
 Gly
 Ile
 Arg
 Met
 Ala
 Thr
 Leu
 Glu
 Lys
 Leu
 Lys
 Lys
 Ile
 I

<210> 11

<211> 99

<212> PRT

<213> Homo Sapiens

```
<400> 11
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
                           10
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln Gln
                        25
40
Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro Gln Leu Pro Gln
                  55
Pro Pro Gln Ala Gln Pro Leu Leu Pro Gln Pro Gln Pro Pro
                              7.5
Pro Pro Pro Pro Pro Pro Gly Pro Ala Val Ala Glu Glu Pro Leu
            85
His Arg Pro
    <210> 12
    <211> 100
    <212> PRT
    <213> Homo Sapiens
    <400> 12
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
                           10
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln
                        25
55
Gln Pro Pro Pro Gln Ala Gln Pro Leu Leu Pro Gln Pro Gln Pro Pro
              70
                              75
Pro Pro Pro Pro Pro Pro Pro Gly Pro Ala Val Ala Glu Glu Pro
Leu His Arg Pro
         100
    <210> 13
    <211> 101
    <212> PRT
    <213> Homo Sapiens
    <400> 13
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln
                        25
40
5.5
Pro Gln Pro Pro Gln Ala Gln Pro Leu Leu Pro Gln Pro Gln Pro
                              7.5
Pro Pro Pro Pro Pro Pro Pro Pro Gly Pro Ala Val Ala Glu Glu
Pro Leu His Arg Pro
         100
    <210> 14
    <211> 102
```

```
<212> PRT
<213> Homo Sapiens
```

<400> 14 Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln Gln 2.5 40 55 Leu Pro Gln Pro Pro Pro Gln Ala Gln Pro Leu Leu Pro Gln Pro Gln 7.5 70 Pro Pro Pro Pro Pro Pro Pro Pro Pro Gly Pro Ala Val Ala Glu 85 Glu Pro Leu His Arg Pro 100

<210> 15 <211> 103 <212> PRT <213> Homo Sapiens

<400> 15 Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys 10 Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln 25 40 55 60 Gln Leu Pro Gln Pro Pro Gln Ala Gln Pro Leu Leu Pro Gln Pro 75 70 Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro Gly Pro Ala Val Ala 85 90 Glu Glu Pro Leu His Arg Pro

<210> 16 <211> 104 <212> PRT <213> Homo Sapiens

100

<400> 16 Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys 10 Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln Gln 25 40 55 Pro Gln Leu Pro Gln Pro Pro Pro Gln Ala Gln Pro Leu Pro Gln 70 75 Pro Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro Gly Pro Ala Val 90 85 Ala Glu Glu Pro Leu His Arg Pro 100

```
<210> 17
    <211> 105
    <212> PRT
    <213> Homo Sapiens
    <400> 17
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
                           10
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln Gln
                        25
40
Gln Gln Gln Gln Gln Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro
                  55
Pro Pro Gln Leu Pro Gln Pro Pro Gln Ala Gln Pro Leu Leu Pro
                              7.5
               70
Gln Pro Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro Gly Pro Ala
                           90
           8.5
Val Ala Glu Glu Pro Leu His Arg Pro
         100
    <210> 18
    <211> 106
    <212> PRT
    <213> Homo Sapiens
    <400> 18
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
                           10
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln
                        25
40
Gln Gln Gln Gln Gln Gln Gln Pro Pro Pro Pro Pro Pro Pro Pro
                  55
                                  60
Pro Pro Pro Gln Leu Pro Gln Pro Pro Pro Gln Ala Gln Pro Leu Leu
                               75
               70
90
           85
Ala Val Ala Glu Glu Pro Leu His Arg Pro
         100
    <210> 19
    <211> 107
    <212> PRT
    <213> Homo Sapiens
    <400> 19
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
                            10
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln Gln
                        25
40
Gln Gln Gln Gln Gln Gln Gln Fro Pro Pro Pro Pro Pro Pro
                  55
Pro Pro Pro Gln Leu Pro Gln Pro Pro Gln Ala Gln Pro Leu
               70
                               75
90
            85
```

Pro Ala Val Ala Glu Glu Pro Leu His Arg Pro

100 105

<210> 20

<211> 108

<212> PRT

<213> Homo Sapiens

<400> 20

Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
1 10 15

Gln Gln Gln Gln Gln Gln Gln Gln Pro Pro Pro Pro Pro 50 55 60

Pro Pro Pro Pro Gln Leu Pro Gln Pro Pro Gln Ala Gln Pro
65 70 75 80

Gly Pro Ala Val Ala Glu Glu Pro Leu His Arg Pro 100 105

<210> 21

<211> 109

<212> PRT

<213> Homo Sapiens

<400> 21

Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
1 10 15

Gln Gln Gln Gln Gln Gln Gln Gln Gln Fro Pro Pro Pro 50 55 60

Pro Pro Pro Pro Pro Gln Leu Pro Gln Pro Pro Pro Gln Ala Gln 65 70 75 80

Pro Gly Pro Ala Val Ala Glu Glu Pro Leu His Arg Pro 100 105

<210> 22

<211> 110

<212> PRT

<213> Homo Sapiens

<400> 22

```
90
           85
Pro Pro Gly Pro Ala Val Ala Glu Glu Pro Leu His Arg Pro
                       105
    <210> 23
    <211> 111
    <212> PRT
    <213> Homo Sapiens
    <400> 23
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
                          10
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln
                       25
40
5.5
Pro Pro Pro Pro Pro Pro Pro Gln Leu Pro Gln Pro Pro Gln
              70
                             7.5
Ala Gln Pro Leu Leu Pro Gln Pro Gln Pro Pro Pro Pro Pro Pro
           8.5
                         90
Pro Pro Pro Gly Pro Ala Val Ala Glu Pro Leu His Arg Pro
        100
                       105
    <210> 24
    <211> 112
    <212> PRT
    <213> Homo Sapiens
    <400> 24
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
                          10
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln
                       25
40
55
Pro Pro Pro Pro Pro Pro Pro Pro Gln Leu Pro Gln Pro Pro Pro
              70
                             75
Gln Ala Gln Pro Leu Leu Pro Gln Pro Gln Pro Pro Pro Pro Pro
           8.5
                          90
Pro Pro Pro Gly Pro Ala Val Ala Glu Glu Pro Leu His Arg Pro
        100
                       105
    <210> 25
    <211> 113
    <212> PRT
    <213> Homo Sapiens
    <400> 25
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
                          10
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln
                       25
40
55
                               60
Pro Pro Pro Pro Pro Pro Pro Pro Gln Leu Pro Gln Pro Pro
```

<400> 28

```
70
                           75
Pro Gln Ala Gln Pro Leu Leu Pro Gln Pro Gln Pro Pro Pro Pro
          85
                        90
Pro Pro Pro Pro Gly Pro Ala Val Ala Glu Glu Pro Leu His Arg
        100
                     105
Pro
    <210> 26
    <211> 114
    <212> PRT
    <213> Homo Sapiens
    <400> 26
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
                        10
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln
                     25
55
75
Pro Pro Gln Ala Gln Pro Leu Leu Pro Gln Pro Gln Pro Pro Pro
          85
                        90
Pro Pro Pro Pro Pro Gly Pro Ala Val Ala Glu Glu Pro Leu His
        100
Arg Pro
    <210> 27
    <211> 115
    <212> PRT
    <213> Homo Sapiens
   <400> 27
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
                        10
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln
                     25
40
55
75
Pro Pro Pro Gln Ala Gln Pro Leu Leu Pro Gln Pro Pro Pro
          8.5
                        90
Pro Pro Pro Pro Pro Pro Gly Pro Ala Val Ala Glu Glu Pro Leu
        100
His Arg Pro
     115
    <210> 28
    <211> 116
    <212> PRT
    <213> Homo Sapiens
```

Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys

```
5
                      10
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln Gln
                   25
55
70
                        7.5
Gln Pro Pro Pro Gln Ala Gln Pro Leu Leu Pro Gln Pro Gln Pro Pro
         85
                      90
Pro Pro Pro Pro Pro Pro Pro Gly Pro Ala Val Ala Glu Glu Pro
                   105
Leu His Arg Pro
    115
   <210> 29
   <211> 117
   <212> PRT
   <213> Homo Sapiens
   <400> 29
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
                      10
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln Gln
                    25
40
60
75
Pro Gln Pro Pro Gln Ala Gln Pro Leu Leu Pro Gln Pro Gln Pro
                      90
Pro Pro Pro Pro Pro Pro Pro Pro Gly Pro Ala Val Ala Glu Glu
       100
                   105
Pro Leu His Arg Pro
    115
   <210> 30
   <211> 118
   <212> PRT
   <213> Homo Sapiens
   <400> 30
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
                      10
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln Gln Gln
                    25
40
75
Leu Pro Gln Pro Pro Gln Ala Gln Pro Leu Leu Pro Gln Pro Gln
                      90
Pro Pro Pro Pro Pro Pro Pro Pro Gly Pro Ala Val Ala Glu
                   105
Glu Pro Leu His Arg Pro
     115
```

```
<210> 31
   <211> 119
   <212> PRT
   <213> Homo Sapiens
   <400> 31
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln
                    25
75
Gln Leu Pro Gln Pro Pro Gln Ala Gln Pro Leu Leu Pro Gln Pro
Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro Gly Pro Ala Val Ala
                    105
       100
Glu Glu Pro Leu His Arg Pro
     115
   <210> 32
   <211> 120
   <212> PRT
   <213> Homo Sapiens
   <400> 32
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
                       10
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln Gln
40
55
70
Pro Gln Leu Pro Gln Pro Pro Gln Ala Gln Pro Leu Leu Pro Gln
                      90
Pro Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro Gly Pro Ala Val
       100
                    105
Ala Glu Glu Pro Leu His Arg Pro
     115
                  120
   <210> 33
    <211> 121
    <212> PRT
    <213> Homo Sapiens
   <400> 33
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
                       10
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln Gln
                    25
40
```

55

```
Gln Gln Gln Gln Gln Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro
Pro Pro Gln Leu Pro Gln Pro Pro Gln Ala Gln Pro Leu Leu Pro
                         90
Gln Pro Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro Gly Pro Ala
                      105
        100
Val Ala Glu Glu Pro Leu His Arg Pro
     115
                    120
    <210> 34
    <211> 122
    <212> PRT
    <213> Homo Sapiens
    <400> 34
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln Gln
Gln Gln Gln Gln Gln Gln Gln Pro Pro Pro Pro Pro Pro Pro Pro
Pro Pro Pro Gln Leu Pro Gln Pro Pro Pro Gln Ala Gln Pro Leu Leu
                          90
105
Ala Val Ala Glu Glu Pro Leu His Arg Pro
     115
    <210> 35
    <211> 123
    <212> PRT
    <213> Homo Sapiens
    <400> 35
Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys
                          10
Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln Gln
Gln Gln Gln Gln Gln Gln Gln Fro Pro Pro Pro Pro Pro Pro
                            75
Pro Pro Pro Gln Leu Pro Gln Pro Pro Gln Ala Gln Pro Leu
                          90
105
Pro Ala Val Ala Glu Glu Pro Leu His Arg Pro
                    120
     115
    <210> 36
    <211> 124
    <212> PRT
    <213> Homo Sapiens
    <400> 36
```

Ile Glu Gly Arg Gly Ile Arg Met Ala Thr Leu Glu Lys Leu Met Lys 10 Ala Phe Glu Ser Leu Lys Ser Phe Gln Gln Gln Gln Gln Gln Gln 40 55 Gln Gln Gln Gln Gln Gln Gln Gln Fro Pro Pro Pro Pro Pro Pro Pro Pro Pro Gln Leu Pro Gln Pro Pro Gln Ala Gln Pro 85 90 105 110 Gly Pro Ala Val Ala Glu Glu Pro Leu His Arg Pro 115 120

<210> 37 <211> 125

<212> PRT

<213> Homo Sapiens

<400> 37

 Ile
 Glu
 Gly
 Arg
 Gly
 Ile
 Arg
 Met
 Ala
 Thr
 Leu
 Glu
 Leu
 Met
 Lys
 10
 Leu
 Lys
 Leu
 Lys
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 <t

<210> 38

<211> 55

<212> PRT

<213> Homo Sapiens

<400> 38

<210> 39

<211> 86

<212> PRT

<213> Homo Sapiens

<400> 39

 Ile
 Glu
 Gly
 Arg
 Gly
 Ile
 Arg
 Met
 Ala
 Thr
 Leu
 Glu
 Lys
 Lys
 Lys
 Ile
 I

<210> 40 <211> 63 <212> PRT <213> Homo Sapiens

<400> 40

<210> 41 <211> 94 <212> PRT <213> Homo Sapiens